IN THE CLAIMS

Please amend the claims as follows:

collimated radiation; and

(original) A collimator (33, 55, 58) panel comprising:
 a solid panel (35, 57, 60) having a first face for receiving
 uncollimated radiation and a second opposite face for providing

a plurality of elongate particles (37, 50) disposed in the panel and orientated to provide the collimating function.

- 2. (original) The collimator panel of claim 1, wherein the longitudinal axes of the particles are orientated in a parallel configuration.
- 3. (original) The collimator panel of claim 2, wherein the particles absorb visible light.
- 4. (original) The collimator panel of claim 2, wherein the particles reflect visible and infrared light.
- 5. (original) The collimator panel of claim 1, wherein the longitudinal axes of the particles are orientated in a converging configuration.

- 6. (original) The collimator panel of claim 5, wherein the longitudinal axes of the particles converge to a point at a fixed distance from the collimator plate.
- 7. (original) The collimator panel of claim 5, wherein the longitudinal axes of different groups of particles converge at points at different distances from the collimator plate.
- 8. (currently amended) The collimator panel of any one of claims 5 to 7claim 5, wherein the surfaces of the particles reflect visible light.
- 9. (original) The collimator panel of claim 8, wherein the particles are metallic particles or dielectric multi-layer particles.
- 10. (currently amended) The collimator panel of any one of the preceding claims 1, wherein the solid panel is translucent.
- 11. (currently amended) The collimator panel of $\frac{1}{2}$ any one of claims $\frac{1}{2}$ to $\frac{1}{2}$ claim 5, wherein the particles absorb X-ray radiation.

- 12. (original) The collimator panel of claim 11, wherein the particles are lead particles, lead alloy particles or tungsten particles.
- 13. (currently amended) The collimator panel of claim 11 or 12, wherein the solid panel is radiolucent.
- 14. (currently amended) The collimator panel of any one of the preceding claims 1, wherein the ratio between thickness and length of the particles is at least 1:10.
- 15. (currently amended) The collimator panel of any one of the preceding claims 1, wherein the thickness of the particles is in the range 5nm to 1 μ m and the length of the particles is in the range 1 μ m to 100 μ m.
- 16. (currently amended) The collimator panel of any one of the preceding claims 1, wherein the solid panel comprises a cured polymerisable liquid.
- 17. (currently amended) The collimator panel of any one of claims 1 to 15 claim 1, wherein the solid panel comprises an organic material having a solidifying temperature above 40°C.

- 18. (currently amended) A display device comprising the collimator panel of claim 2—or 3.
- 19. (currently amended) A backlight (41, 49) for a transmissive liquid crystal display device (47) comprising the collimator panel of any one of claims 8 to 10 claim 8.
- 20. (currently amended) An X-ray detector comprising the collimator panel of any one of claims 11 to 13 claim 11.
- 21. (currently amended) A collimator panel array (41) comprising a plurality of collimator panels according to any of the preceding elaimsclaim 1.
- 22. (original) A method of manufacturing a collimator panel, the method comprising the steps of:

suspending a plurality of elongate particles in a liquid; applying an electric or magnetic field to the suspension to orientate the particles; and solidifying the liquid to fix the orientation of the particles, thereby forming a collimator panel.

- 23. (original) The method of claim 22, further comprising the step of bringing the suspension between contoured surfaces (93) prior to the step of applying an electric or magnetic field.
- 24. (original) The method of claim 23, further comprising the step of flattening the collimator panel after the step of solidifying the liquid.
- 25. (original) The method of claims 22, further comprising the step of bringing the suspension between flat parallel surfaces prior to the step of applying an electric or magnetic field.
- 26. (currently amended) The method of any one of claims 22 to 25claim 22, wherein the step of applying an electric or magnetic field comprises applying an electric or magnetic field having parallel field lines.
- 27. (currently amended) The method of any one of claims 22 to 25claim 22, wherein the step of applying an electric or magnetic field comprises applying an electric or magnetic field having non-parallel field lines.

- 28. (currently amended) The method of any one of claims 22 to 27claim 22, wherein the liquid comprises a polymerisable liquid, and the step of solidifying the liquid comprises polymerising the liquid.
- 29. (currently amended) The method of any one of claims 22 to 27claim 22, wherein the liquid comprises an organic material having a solidifying temperature above 40°C, and the step of solidifying the liquid comprises cooling the liquid.
- 30. (original) The method of claim 28, wherein the step of polymerising the liquid comprises exposing the liquid to ultraviolet light to initiate a polymerisation reaction.
- 31. (original) The method of claim 28, wherein the polymerisable liquid comprises a (metha)acrylate, an epoxy, a vinylether monomer or a thiolene system.
- 32. (original) A method of manufacturing elongate particles (69) for suspending in panels, the method comprising the steps of:

depositing a patterned layer of negative etch resist material (61) on a layer of elongate particle material (63), patterned areas

representing a required shape and size of a plurality of elongate particles (69); and

etching areas of the layer of elongate particle material not covered by the negative etch resist material, thereby leaving elongate particles.

- 33. (original) The method of claim 32, wherein the layer of elongate particle material is disposed on a substrate (67) coated with a release layer (65), and wherein the method further comprises, after the step of etching, the step of releasing the elongate particles from the substrate.
- 34. (original) The method of claim 33, wherein the step of releasing the elongate particles from the substrate comprises dissolving the release layer in a solvent.
- 35. (currently amended) The method of any one of claims 32 to 34claim 32, further comprising, after the step of etching, the step of removing the negative etch resist material from the elongate particle material.
- 36. (currently amended) The method of any one of claims 32 to 35claim 32, wherein the patterned layer of negative etch resist

material is deposited by offset printing, microcontact printing or inkjet printing.

37. (original) A method of manufacturing elongate particles for suspending in panels, the method comprising the steps of:

depositing a patterned layer of positive etch resist material on a layer of elongate particle material, unpatterned areas representing a required shape and size of a plurality of elongate particles;

processing the unpatterned areas to make them more etch resistant than the patterned areas; and

removing the positive etch resist material and etching areas of the layer of elongate particle material that were covered by the positive etch resist material, thereby leaving elongate particles.

38. (original) The method of claim 37, wherein the layer of elongate particle material is disposed on a substrate coated with a release layer, and wherein the method further comprises, after the step of removing the positive etch resist material and etching, the step of releasing the elongate particles from the substrate.

- 39. (original) The method of claim 38, wherein the step of releasing the elongate particles from the substrate comprises dissolving the release layer in a solvent.
- 40. (currently amended) The method of any one of claims 37 to 39claim37, wherein the patterned layer of positive etch resist material is deposited by offset printing, microcontact printing or inkjet printing.
- 41. (currently amended) The method of any one of claims 22 to

 31claim 22, preceded by the method of manufacturing elongate
 particles for suspending in panels, the method comprising the steps
 of:

on a layer of elongate particle material, unpatterned areas

representing a required shape and size of a plurality of elongate

particles;

processing the unpatterned areas to make them more etch resistant than the patterned areas; and

removing the positive etch resist material and etching areas
of the layer of elongate particle material that were covered by the
positive etch resist material, thereby leaving elongate
particlesary one of claims 32 to 40.